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PERFORMANCE STUDIES ON ANIMALS EXPOSED TO EXTERNAL RADIATION. I. SOME EFFECTS OF SUBLETHAL TOTAL BODY IRRADIATION UPON THE PERFORMANCE OF EXHAUSTIVE SWIMMING TESTS.

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Abstract:

The ability of rats to perform standardized exhaustive swimming tests was decreased greatly by total body irradiation with 600r of x-rays. Animals which survived nine weeks or longer after irradiation regained their initial performance ability. The stress of repeated physical performance caused a 50 percent mortality among irradiated swimmers while 100 percent of irradiated non-swimming animals survived. Some correlative alternations in body weight and test performance are analyzed. Author

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